

Q3305 Igniter-Flame Rod Assembly

INSTALLATION INSTRUCTIONS

APPLICATION

The Q3305 Spark Igniter-Flame Rod assembly replaces the original spark igniter-flame rod assembly in the Q3451 Pilot Burner Igniter-Sensor used with the S8600 Intermittent Pilot Ignition Systems. The assembly can be replaced without removing the pilot burner. See Fig. 1.

The Q3305 has an insulated spark/sensing leadwire for connection to the S8600 Ignition Module.

SPECIFICATIONS

Temperature Ratings:

- Spark/Flame Rod Tip: 1800°F (982°C).
- Spark/Flame Rod Insulator: 1250°F (677°C).
- Spark/Flame Rod Lead: 482°F (250°C).

INSTALLATION

When Installing This Product...

1. Read these instructions carefully. Failure to follow them can damage the product or cause a hazardous condition.
2. Check the ratings and description given in the instructions to make sure the product is suitable for your application.
3. Installer must be a trained, experienced service technician.
4. After installation is complete, check out product operation as provided in these instructions.

⚠ WARNING

Fire or Explosion Hazard
Can cause property damage, serious injury or death.

Follow these warning instructions exactly:

1. Disconnect power supply before removing any connectors to prevent electrical shock or equipment damage.
2. Turn off the gas supply at the appliance service valve before starting igniter-flame rod assembly removal to avoid dangerous accumulation of fuel gas.

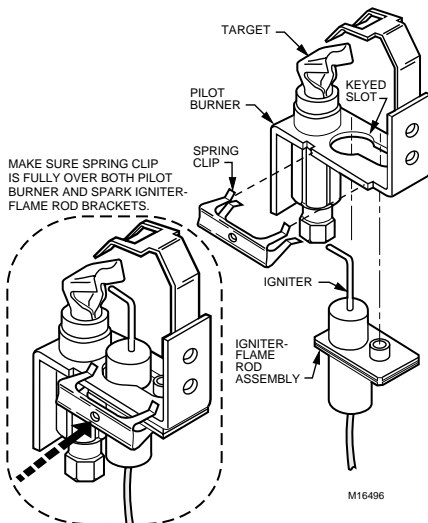


Fig. 1. Replacing the original spark igniter-flame rod assembly with the Q3305 Igniter-Flame Rod Assembly.



Remove Old Assembly

1. Turn off power at circuit breaker or fuse box.
2. Hold the bottom of the assembly with one hand; with the other hand, remove the spring clip by pulling it away from the pilot burner. See Fig. 1.
3. Remove the assembly from the pilot burner.
4. Disconnect the leadwires from the ignition system control module.
5. Discard the old assembly and spring clip.

IMPORTANT

Make sure the assembly is oriented in the proper direction for installation into the pilot burner.

Mount Replacement Assembly

1. Insert the assembly into the pilot burner until it is flush with pilot burner bracket. Secure with new spring clip provided. See Fig. 1.
2. Connect the leadwire (with black insulated .250 in. quick connect) of the spark igniter rod to the spark terminal of the S8600 Ignition Module. Do not allow the leadwire of the spark igniter to touch grounded metal surfaces because this reduces the voltage available at the spark gap.

STARTUP AND CHECKOUT

1. Make sure that the spark gap of the spark igniter rod to the target tip is between 0.080 and 0.140 in. If the gap is outside this specification, use a needle-nosed pliers and bend the rod to bring the gap within the specification.
2. Check the system operation according to the appliance manufacturer checkout procedure.

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